

**Title V Semi-Annual Monitoring Verification Report  
US Pipe and Foundry Company, Plant #A0083  
July 1 to December 31, 2015**

**Applicable Limits and Compliance Monitoring Requirements  
Table VII-A  
S-1 Cupola**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	BAAQMD Condition #2274, Parts 4 and 5	C	temperature monitor, pressure drop monitor	Y	
	BAAQMD 6-1-301 and SIP 6-301 <sup>1</sup>	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	BAAQMD Condition #2274, Part 8	P/D	preventative maintenance records	Y	
	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	BAAQMD Condition #2274, Part 9	P/D	Visible emission monitoring	Y	
	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	40 CFR 63.10897	C	temperature monitor, pressure drop monitor	Y	
PM	BAAQMD 6-1-305 and SIP 6-305	Y		Fallout of visible particles	BAAQMD Condition #2274, Parts 4 and 5	C	temperature monitor, pressure drop monitor	Y	
FP	BAAQMD 6-1-310 and SIP 6-310	Y		0.15 gr/dscf	BAAQMD Condition #2274, Parts 4 and 5	C	temperature monitor, pressure drop monitor	Y	
	BAAQMD 6-1-310 and SIP 6-310	Y		0.15 gr/dscf	40 CFR 63.10897	C	temperature monitor, pressure drop monitor	Y	

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								Yes	No
FP	BAAQMD 6-1-311 and SIP 6-311	Y		40 lb/hr	BAAQMD Condition #2274, Parts 4 and 5	C	Temperature monitor, pressure drop monitor	Y	
	BAAQMD 6-1-311 and SIP 6-311	Y		40 lb/hr	40 CFR 63.10897	C	Temperature monitor, pressure drop monitor	Y	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		Y	
	BAAQMD 9-1-302	Y		sulfur emissions not to exceed 300 ppm, dry	BAAQMD Condition #2274, part 7	P/E	Fuel certification; Source test when coke sulfur exceeds 0.75%	Y	
	BAAQMD 9-1-304	Y		sulfur content of solid fuel limited to ensure SO <sub>2</sub> ≤ 300ppmd	BAAQMD condition #2274, part 7	P/E	Fuel certification; Source test when coke sulfur exceeds 0.75%	Y	
SO <sub>2</sub>	BAAQMD Condition #2274, part 7	Y		Sulfur content of coke not to exceed 1.0%	BAAQMD condition #2274, part 7	P/E	Fuel certification	Y	

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Lead	BAAQMD 11-1-301	Y		15 lb/day	BAAQMD Condition #2274, part 10	P/E	Initial Source Test	Y	
	BAAQMD 11-1-302	Y		GLC <sup>1</sup> not to exceed 1.0 ug/m <sup>3</sup> averaged over 24 hrs	BAAQMD Condition #2274, part 10	P/E	Initial Source Test	Y	
PM	40 CFR 63.10895 (c)	Y		0.8 pounds of PM per ton of metal charged	40 CFR 63.10898	P/E	Initial Source Test	Y	
HAP	40 CFR 63.10895 (c)	Y		0.06 pounds of total metal HAP per ton of metal charged	40 CFR 63.10898	P/E	Initial Source Test	Y	
Grey iron throughput	BAAQMD Condition #2274, part 2	Y		600 tons per day	BAAQMD Condition 2274, part 6	P/ D	Records	Y	
Afterburner Temperature limit (On-Blast/Reduced Blast)	BAAQMD Condition #2274, part 3	Y		1550oF	BAAQMD Condition 2274, part 5	C	Continuous Temperature monitor/recorder	Y	

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Afterburner Temperature limit (Off-Blast)	BAAQMD Condition #2274, part 3	Y		≥700oF	BAAQMD Condition 2274, part 5	C	Continuous Temperature monitor/recorder	Y	
Baghouse Pressure Drop	BAAQMD Condition #2274, part 4	Y		Pressure drop across bags not to exceed 8 inches water column or to fall below 1 inch water column	BAAQMD Condition #2274, part 13	C	Pressure drop monitor	Y	
TSP	BAAQMD Condition #2274, part 11	Y		0.006 gr/dscf	BAAQMD Condition #2274, part 11	N	Source Test	Y	

<sup>1</sup> Ground Level Concentration

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-B**  
**S-4 Ductile Treating Station**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	BAAQMD Condition #1783, Part 3	C	pressure drop monitor	Y	
	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	BAAQMD Condition #1783, Part 6	P/W	preventative maintenance records	Y	
	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	BAAQMD Condition #1783, Part 7	P/W	Visible emission monitoring	Y	
PM	BAAQMD 6-1-305 and SIP 6-305	Y		Fallout of visible particles	BAAQMD Condition #1783, Part 3	C	Pressure drop monitor	Y	
FP	BAAQMD 6-1-310 and SIP 6-310	Y		0.15 gr/dscf	BAAQMD Condition #1783, Part 3	C	Pressure drop monitor	Y	
FP	BAAQMD 6-1-311 and SIP 6-311	Y		40 lb/hr	BAAQMD Condition #1783, Part 3	C	Pressure drop monitor	Y	
Lead	BAAQMD 11-1-301	Y		15 lb/day		N		Y	
	BAAQMD 11-1-302	Y		GLC <sup>1</sup> not to exceed 1.0 ug/m <sup>3</sup> averaged over 24 hrs		N		Y	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		Y	
	9-1-302	Y		sulfur emissions not to exceed 300 ppm, dry		N		Y	
SO <sub>2</sub>	BAAQMD Condition #1783, part 2	Y		150 lb/day		N		Y	

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**Applicable Limits and Compliance Monitoring Requirements  
 Table VII-B  
 S-4 Ductile Treating Station**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Baghouse Pressure Drop	BAAQMD Condition #1783, part 5	Y		Pressure drop across bags not to exceed 6 inches water column or to fall below 1/4 inch water column	BAAQMD Condition #1783, part 3	C	Pressure drop monitor	Y	

<sup>1</sup> Ground Level Concentration

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-C  
S-5 Ladle Lancing**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	BAAQMD Condition #14989, Part 1	P/D	preventative maintenance records	Y	
	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	BAAQMD Condition #14989, Part 2	P/W	Visible emission monitoring	Y	
	BAAQMD 6-1-305 and SIP 6-305	Y		Fallout of visible particles		N		Y	
FP	BAAQMD 6-1-310 and SIP 6-310	Y		0.15 gr/dscf		N		Y	
	BAAQMD 6-1-311 and SIP 6-311	Y		40 lb/hr		N		Y	

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-D  
S-8 Bell Blowout**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 $\leq$ 3 minutes aggregated in any hour	BAAQMD Condition #2212, Part 3	C	pressure drop monitor	Y	
	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 $\leq$ 3 minutes aggregated in any hour	BAAQMD Condition #2212, Part 4	P/W	Visible emission monitoring	Y	
PM	BAAQMD 6-1-305 and SIP 6-305	Y		Fallout of visible particles	BAAQMD Condition #2212, Part 3	C	pressure drop monitor	Y	
FP	BAAQMD 6-1-310 and SIP 6-310	Y		0.15 gr/dscf	BAAQMD Condition #2212, Part 3	C	pressure drop monitor	Y	
	BAAQMD 6-1-311 and SIP 6-311	Y		40 lb/hr	BAAQMD Condition #2212, Part 3	C	pressure drop monitor	Y	
Baghouse Pressure Drop	BAAQMD Condition #2212, part 2	Y		Pressure drop across bags not to exceed 6 inches water column or to fall below 1/4 inch water column	BAAQMD Condition #2212, part 3	C	Pressure drop monitor	Y	

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-E  
S-15 Annealing Oven**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	BAAQMD Condition #14990, Part 1	P/M	Visible emission monitoring	Y	
PM	BAAQMD 6-1-305 and SIP 6-305	Y		Fallout of visible particles		N		Y	
FP	BAAQMD 6-1-310 and SIP 6-310	Y		0.15 gr/dscf		N		Y	
FP	BAAQMD 6-1-311 and SIP 6-311	Y		40 lb/hr		N		Y	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		Y	
	BAAQMD 9-1-302	Y		sulfur emissions not to exceed 300 ppm, dry		N		Y	

<sup>1</sup> Ground Level Concentration

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-F  
S-16 Pneumatic Cement Transport System**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No.1 ≤ 3 minutes aggregated in any hour	BAAQMD Condition #14991, Part 1	P/M	Visible emission monitoring	Y	
PM	BAAQMD 6-1-305 and SIP 6-305	Y		Fallout of visible particles		N		Y	
FP	BAAQMD 6-1-310 and SIP 6-310	Y		0.15 gr/dscf		N		Y	
	BAAQMD 6-1-311 and SIP 6-311	Y		40 lb/hr		N		Y	

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-G  
S-17 Surface Coater**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
VOC	BAAQMD 8-19-302.2	Y		VOC limit of 2.8 lb/gal	BAAQMD 8-19-501	P/W	coating records	Y	
	BAAQMD Condition #20671, part 1	Y		Coating usage limit of 156,000 gallons per year; solvent usage limit of 5,200 gallons per year	BAAQMD Condition #20671, part 3	P	Coating and solvent usage records	Y	
	BAAQMD Condition #20671, part 2	Y		Alternative coating/solvent mass emission limit of 94.9 tons per year	BAAQMD Condition #20671, part 3	P	Coating and solvent usage records	Y	

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-H  
S-33 Gasoline Dispensing Facility (Non-Retail)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
POC	BAAQMD 8-7-301.10	N		minimum vapor recovery efficiency of lesser of 98% or CARB-certified efficiency for new or modified systems	BAAQMD Condition #18432, part 2	P/A	Source Test	Y	
	BAAQMD Regulation 8-7-313.1	N		Fugitives $\leq$ 0.42 lb/1000 gallon		N		Y	
	BAAQMD Regulation 8-7-313.2	N		Spillage $\leq$ 0.42 lb/1000 gallon		N		Y	
	BAAQMD Regulation 8-7-313.3	N		Liquid Retain + Spitting $\leq$ 0.42 lb/1000 gallon		N		Y	
	None	N		None	BAAQMD Regulation 8-7-503	P/M	Records	Y	
	SIP Regulation 8-7-301.2	Y		95% recovery of gasoline vapors		N		Y	
Gasoline throughput	BAAQMD condition #18432, part 1	Y		940,000 gallons per year	BAAQMD Regulation 8-7-503	P	Records	Y	

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**Table VII-I  
S-40 Portable Abrasive Blasting Unit #1**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 12-4-301	Y		Ringelmann No. 1 Limitation		N		Y	
	BAAQMD 12-4-302	Y		Ringelmann No. 2 Limitation		N		Y	
Usage	BAAQMD Condition 13321, part 1	Y		12 tons per 12-month period or 243 lbs per calendar day	BAAQMD Condition 13321, part 3	P/D	records	Y	

**Table VII-J  
S-41 Portable Abrasive Blasting Unit #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 12-4-301	Y		Ringelmann No. 1 Limitation		N		N/A*	
	BAAQMD 12-4-302	Y		Ringelmann No. 2 Limitation		N		N/A*	
Usage	BAAQMD Condition 13321, part 4	Y		1.5 tons per 12-month period or 1000 lbsper calendar day	BAAQMD Condition 13321, part 6	P/D	records	N/A*	

\* Note: S-41 Portable Abrasive Blasting Unit #2 has not been used during this reporting period.

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII-K  
S-42 Cold Cleaner #2  
S-43 Cold Cleaner #3**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
POC	BAAQMD Condition #16938, part 2(a)	Y		101 pounds per year	BAAQMD Condition #16938, part 3	P	Usage Records	Y*	
NPOC	BAAQMD Condition #16938, part 2(b)	Y		0 pounds per year	BAAQMD Condition #16938, part 3	P	Usage Records	Y*	

**\* Note: Only S-43 Cold Cleaner has been used during this reporting period.**

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**Applicable Limits and Compliance Monitoring Requirements**

**Table VII - L  
S-52 STANDBY GENERATOR DIESEL ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-303.1 and SIP 6-303	Y		Ringelmann No.2 ≤ 3 minutes aggregated in any hour		N		N/A*	
FP	BAAQMD 6-1-310 and SIP 6-310	Y		0.15 grain/dscf		N		N/A*	
	BAAQMD 6-1-310 and SIP 6-310	Y		0.15 grain/dscf @ 6% O <sub>2</sub>		N		N/A*	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	BAAQMD Condition #20974, part 1	P/M	Fuel Certification Records	N/A*	
	BAAQMD 9-1-304	Y		sulfur emissions not to exceed 300 ppm, dry	BAAQMD Condition #20974 part 1	P/M	Fuel Certification Records	N/A*	
Operating hours	BAAQMD 9-8-330	Y		100 hours of reliability-related operation per calendar year until 1/1/12  50 hours of reliability-related operation per calendar year as of 1/1/12	BAAQMD Regulation 9-8-530	P/M	Records of operation	N/A*	

\* Note: S-52 Emergency Generator has not been used during this reporting period.